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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 3 is deleted

Claim 4 is deleted

7. (new) An inverter device comprising:

a calculating unit configured to calculate at least one output-voltage command value based on a frequency command value for driving a motor and a state quantity of the motor, in each calculation period;

a signal output unit configured to output a pulse-width-modulation signal according to the output-voltage command value; and

a switching unit configured to switch a direct voltage according to the pulsewidth-modulation signal to supply an alternating voltage having a predetermined frequency to the motor, wherein

the calculating unit is configured to calculate a plurality of output-voltage command values when a phase change amount is higher than a threshold, and to calculate a single output-voltage command value when the phase change amount is

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equal to or less than the threshold, wherein

the calculating unit is configured to calculate more number of output-voltage command values when the frequency command value is higher than a threshold than when the frequency command value is lower than the threshold.

8. (new) An inverter device comprising:

a calculating unit configured to calculate at least one output-voltage command value based on a frequency command value for driving a motor and a state quantity of the motor, in each calculation period;

a signal output unit configured to output a pulse-width-modulation signal according to the output-voltage command value; and

a switching unit configured to switch a direct voltage according to the pulsewidth-modulation signal to supply an alternating voltage having a predetermined frequency to the motor, wherein

the calculating unit is configured to calculate a plurality of output-voltage command values when a phase change amount is higher than a threshold, and to calculate a single output-voltage command value when the phase change amount is equal to or less than the threshold, wherein

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the calculating unit is configured to calculate a plurality of output-voltage command values when the frequency command value is higher than a threshold, and to calculate a single output-voltage command value when the frequency command value is lower than the threshold.